

ABSTRACT OF THE DISCLOSURE

A method of forming ablative insulation coatings on aerospace structures and articles produced thereby. The method includes forming a mold having a cavity configured to complementarily receive at least a portion of the structure and directly molding the ablative coating to a surface of the structure by introducing a prepared ablative mixture, such as an epoxy resin, into the mold. The process may desirably include curing at atmospheric pressures to reduce the expense and equipment required in carrying out the process. The method of applying the ablative coating further includes features such as varying the thickness of the ablative coating from one portion of the component to another. Control of the thickness may be effected through use of spacers embedded into the ablative coating and formed of the same or similar material previously cured prior to placement in the mold.

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